PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

REC'D	28	OCT	2005
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Applicant's or agent's file reference 29244/022WO1	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. PCT/EP2004/051351	International filing date (day/month/year) 02.07.2004	Priority date (day/month/year) 09.07.2003
International Patent Classification (IPC) or nati E21B7/06, E21B7/20, E21B41/00	onal classification and IPC	
Applicant SERVICES PETROLIERS SCHLUMB	BERGER et al.	
 This REPORT consists of a total of This report is also accompanied by 	4 sheets, including this cover sheet. ANNEXES, comprising:	
SHEELS OF THE DESCRIPTION	he International Bureau) a total of 6 she claims and/or drawings which have bee rectifications authorized by this Authority is)	eets, as follows: en amended and are the basis of this report by (see Rule 70.16 and Section 607 of the
□ sheets which supersede beyond the disclosure in Supplemental Box.	earlier sheets, but which this Authority c the international application as filed, as	considers contain an amendment that goes indicated in item 4 of Box No. I and the
b. (sent to the International Burd sequence listing and/or tables Box Relating to Sequence Lis	eau only) a total of (indicate type and nui related thereto, in computer readable fo ting (see Section 802 of the Administrat	mber of electronic carrier(s)) , containing a orm only, as indicated in the Supplemental tive Instructions).
4. This report contains indications relat	ng to the following items:	
⊠ Box No. I Basis of the opinio		
☐ Box No. II Priority	•	
	Of Opinion with regard to manufact to	
☐ Box No. IV Lack of unity of inv	of opinion with regard to novelty, invent	live step and industrial applicability
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement.		
Certain documents	cited	
Box No. VII Certain defects in the international application		
☐ Box No. VIII Certain observation	s on the international application	
Date of submission of the demand	Date of completion of	f this report
08.02.2005	31.10.2005	
Name and mailing address of the international preliminary examining authority:	Authorized Officer	
European Patent Office - P.B. 581 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 Fax: +31 70 340 - 3016	8 Patentlaan 2	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/051351

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_	Box No. Basis of the repor	t	
1,	. With regard to the language, this report is based on the international application in the language in which filed, unless otherwise indicated under this item.		
•	international search (und	islations from the original language into the following language, translation furnished for the purposes of: der Rules 12.3 and 23.1(b)) ational application (under Rule 12.4) examination (under Rules 55.2 and/or 55.3)	
2.	With regard to the elements* of the international application, this report is based on (replacement sheets who have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):		
	Description, Pages		
	1-19	as originally filed	
	2a	filed with telefax on 27.07.2005	
	Claims, Numbers		
	1-24	filed with telefax on 27.07.2005	
	Drawings, Sheets		
	1/8-8/8	as originally filed	
	☐ a sequence listing and/or an	y related table(s) - see Supplemental Box Relating to Sequence Listing	
3.	 ☐ The amendments have resulted in the cancellation of: ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify): 		
4.	☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify):		
	* If item 4 applies, so	me or all of these sheets may be marked "superseded "	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/051351

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims
No: Claims

1-24

Inventive step (IS)

Yes: Claims

1-24

No:

Industrial applicability (IA)

Yes: Claims

Claims

1-24

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: US 5 622 231 D2: US 1 929 415

The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and shows a method for constructing a lateral hole departing from a main well by positioning a drilling machine at a predetermined depth, pushing the drill bit with first cylindrical elements to form a drill string, removing the first cylindrical elements, and lining the drilled borehole with second cylindrical elements.

The subject-matter of claim 1 differs from this known method in that a tubular is instead formed by unwrapping a band of metal from a storage roll, said tubular serving as liner for the borehole.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

The prior art methods require two steps to complete a lateral wellbore, a first step of drilling the hole, and a second step of lining it. By creating a tubular from a storage roll, an inexpensive tubular is produced which is strong enough to be used as a drill string, and not too costly to be left in the wellbore as lining. Although the technique of making tubulars by unwrapping a band of metal from a storage roll is known (see D2), its application within the space of a wellbore implies grave constraints, which the skilled person is not expected to overcome without the exercise of inventive skills (Article 33(3) PCT).

The same reasoning applies, mutatis mutandis, to the subject-matter of the corresponding independent claim 16, which therefore is also considered new and inventive.

Claims 2 to 15, and claims 17 to 24 are dependent respectively on claims 1 and 16, and as such also meet the requirements of the PCT with respect to novelty and inventive step.